

CATALOGUE FOR THE 123 PORTAL (AUSTRALIAN OCEAN DATA NETWORK)

IMOS National Reference Station (NRS) - Zooplankton Abundance

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| [Visualization service URL \(WMS\) \(NRS Zooplankton abundance\)](#) |

Title	IMOS National Reference Station (NRS) - Zooplankton Abundance
Date	2008-09-01
Date type	Creation
Abstract	<p>This dataset comprises the zooplankton abundance estimates analysed from samples collected as part of the Integrated Marine Observing Systems (IMOS) National Mooring Network - National Reference Station (NRS) field sampling. Regular monthly zooplankton samples are undertaken at the stations as part of a larger water sampling program by the Australian National Reference Stations. In total nine stations are sampled regularly around the Australian coastline. Sampling is conducted monthly (Esperance and Ningaloo 3 monthly) off small vessels at each of the nine reference stations. The sampling is conducted using a drop net (as per the design of Heron) which has a 60 cm diameter, 100 micron mesh and is weighted to fall at 1 m/s. The net is designed to pull closed at the end of its fall so that it samples on the way down and does not sample on the way up. The depth of the sample varies at each station. 3 zooplankton samples are taken each month. 2 are fixed in formalin and will be analysed as described below. The unfixed sample is concentrated and frozen (-80oC)and will be used for molecular analysis in the future. The Port Hacking 4 (PH4) samples (2002 - Jan 2009) were sampled using a smaller net, 20 cm diameter, which sampled on the way up and down. The PH4 site is very close to the Port Hacking national reference station (PHB) where samples are now taken to build up and enhance the time series. The plankton ecology lab (based in Queensland) will analyse the samples collected for: 1. Community composition (Taxon/m3) 2. Biomass (dry weight in mg/m3) 3. Size spectrum analysis using zooscan (in progress) Data storage and access is planned to be interoperable with other national and international programs through the IMOS Infrastructure. Station metadata can be found through this resource. Data is available freely via the AODN portal: https://portal.aodn.org.au. As the taxonomic resolution of the data has changed over time, due to continual training, it is important that users refer to the change log tables included in your data download. These will provide information on the validity of the taxa, from what date we have been identifying certain taxa etc. Classification fields may be blank depending on the level to which that taxa has been identified, i.e. if only identified to family, genus and species will be blank. Additional information for this dataset may be available via the original MarLIN metadata entry: http://www.marine.csiro.au/marq/edd_search.Browse_Citation?txtSession=9012. For information on using the data please refer to Eriksen et al. 2019. It is advised that anyone using this data should read this methodology or contact the project contact person. The data are made available in binned products for ease of use. As taxonomy changes over time and the ability of analysts improves with training more and more species are able to be identified over time. The products account for these changes and for real absences from the samples. A 0 abundance means that the species was looked for and not seen, -999 means that the species was not looked for in that sample. The products are therefore applicable for use in time series analysis. There are 5 products to choose from: Raw product (includes all data); Copepod species file (includes all copepod data where species have been identified); Non copepod species file (includes all non copepod data where species have been identified); Genus product (includes all data binned to genus level); Higher taxonomic group (includes all data binned to functional groups). Note - The raw product contains the same information as the raw flat file previously supplied via this collection (prior to 17/04/2019), but the absences have been added in and the taxonomic changes have been accounted for, for ease of use.</p>
Metadata language	eng
Character set	UTF8
OnLine resource	
Linkage	https://catalogue-imos.aodn.org.au:443/geonetwork/srv/en/metadata.show?uuid=c13451a9-7cfe-091c-e044-00144f7bc0f4

Protocol	WWW:LINK-1.0-http--metadata-URL
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Protocol	WWW:LINK-1.0-http--link
Linkage	http://imos.org.au/nationalmooringnetwork.html
Protocol	WWW:LINK-1.0-http--link
Linkage	http://content.aodn.org.au/Documents/IMOS/Facilities/national_mooring/IMOS_NRS_BGCMannual_LATEST.pdf
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Linkage	https://help.aodn.org.au/web-services/ogc-wfs/
Protocol	WWW:LINK-1.0-http--link

Point of contact

Individual name	Ms Claire Davies
Organisation name	CSIRO Oceans and Atmosphere - Hobart
Position name	Research Projects Officer CMAR
Role	Point of contact
Topic category	Biota
Topic category	Oceans

Keyword

Keyword	Oceans Marine Biology Marine Microbiota
Keyword	Oceans Ocean Chemistry Alkalinity
Keyword	Oceans Ocean Chemistry Inorganic Carbon
Keyword	Oceans Ocean Optics Fluorescence
Keyword	Oceans Ocean Optics Secchi Depth

Keyword	Oceans Ocean Optics Turbidity
Keyword	Oceans Ocean Temperature Water Temperature
Keyword	Oceans Salinity/Density Salinity
Type	Theme
Keyword	National Reference Stations Sub-Facility, Integrated Marine Observing System (IMOS)
Type	Discipline
Keyword	Global / Oceans Indian Ocean
Keyword	Marine Features (Australia) Great Australian Bight, SA/WA
Keyword	Global / Oceans Pacific Ocean
Keyword	Regional Seas Tasman Sea
Keyword	Regional Seas Timor Sea
Keyword	Regional Seas Coral Sea
Type	Place
Keyword	Countries Australia
Keyword	States, Territories (Australia) Western Australia
Keyword	States, Territories (Australia) South Australia
Keyword	States, Territories (Australia) Victoria
Keyword	States, Territories (Australia) Tasmania
Keyword	States, Territories (Australia) New South Wales
Keyword	States, Territories (Australia) Queensland
Keyword	States, Territories (Australia) Northern Territory
Keyword	Marine Features (Australia) Kangaroo Island, SA
Keyword	Marine Features (Australia) Maria Island, TAS
Keyword	Coastal Cities / Towns (Australia) Port Hacking, NSW
Keyword	Coastal Cities / Towns (Australia) Darwin, NT
Keyword	Marine Features (Australia) North Stradbroke Island, QLD
Keyword	Marine Features (Australia) Ningaloo Marine Park, WA
Keyword	Marine Features (Australia) Rottnest Island, WA
Keyword	Coastal Cities / Towns (Australia) Esperance, WA
Type	Place

Lineage

Statement	Data sampling is being conducted as part of a larger IMOS monitoring program. The zooplankton samples are analysed at the Plankton Ecology Lab at CSIRO Marine and Atmospheric Research, Queensland. The samples are concentrated down to 100 ml in a measuring cylinder. A subsample (1 ml, 2.5 ml or 5 ml) is taken from the 100 ml concentrate using a stempel pipette. The sub sample is analysed to the lowest taxa possible. For each sample 100 adult copepods and 500 total zooplanktons must be counted. If these conditions are not met by the first sub sample analysis, a second sub sample is analysed. This continues until the two conditions are met. These counts are then converted to taxa / m3 and the analysis data is exported to IMOS.
Statement	ATTRIBUTE STATEMENT: NRS_TRIP_CODE - Trip Identifier to enable all the different samples taken on trip to be found in each set of data NRS_SAMPLE_CODE - Sample Identifier - currently called nrs_code STATION_NAME - Sampling Station Name IMOS_SITE_CODE - identifier in the format "NRS"STN where STN = 3 letter code for the station sampled UTC_TRIP_START_TIME - Trip Start Time (UTC) LOCAL_TRIP_START_TIME - Trip Start Time (Local Time) LONGITUDE - Longitude of

	sample (Decimal degrees, WSG84 datum) LATITUDE - Latitude of sample (Decimal degrees, WSG84 datum) TAXON_NAME - Taxonomic species information FAMILY - Taxonomic Family (where identified to Family) GENUS - Taxonomic Genus (where identified to Genus) SPECIES - Taxonomic Species (where identified to Species) SEX - Sex of specimen LIFE_STAGE - Life stage of specimen TAXON_GROUP - Broad Taxonomic Group Name TAXON_ECO_GROUP - Custom Eco Group Name CAAB_CODE - Taxonomic CAAB Code TAXON_START_DATE - Date at which Taxonomic Group is active from TAXON_PER_M3 - Zooplankton abundance (number of this taxa per cubic metre) SAMPLE_COMMENTS - Optional comments
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File identifier	c13451a9-7cfe-091c-e044-00144f7bc0f4
Metadata language	eng
Character set	UTF8

Metadata author

Organisation name	CSIRO Marine Data Centre
Role	Distributor
Date stamp	2020-02-27T18:16:05